Title (en)

ENTOMOPOXVIRUS-BASED GENE DELIVERY VECTOR FOR VERTEBRATES

Title (de)

EIN AUF ENTOMOPOXVIRUS BASIERENDER GEGENÜBERTRAGUNGSVEKTOR FÜR WIRBELTIERE

Title (fr)

VECTEUR D'ADMINISTRATION DE GENE A BASE D'ENTOMOPOXVIRUS POUR VERTEBRES

Publication

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Application

EP 98921026 A 19980507

Priority

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Abstract (en)

[origin: WO9850571A1] This invention provides recombinant entomopoxvirus as a novel vector and method of using such vector for delivery and expression of genes of biological significance to vertebrate cells, including human cells. This invention includes the use of an early entomopoxvirus or like gene promoter to drive the expression of a heterologous gene product in a vertebrate cell infected with the recombinant entomopoxvirus vector. We have discovered that, while the entomopoxvirus vector of this invention does not replicate in the vertebrate cell, it enters vertebrate cell cytoplasm and achieves expression of a heterologous gene inserted into the rEPV without causing cytopathic or cytotoxic effects. We further provide a method for expression of the hererologous gene under control of late, strong entomopoxvirus gene promoters, vertebrate gene or viral promoters, and for stable integration of the heterologous gene delivered by the rEPV into the vertebrate cell.

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